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Higher power, longer service life, linear power warranty for 30 years

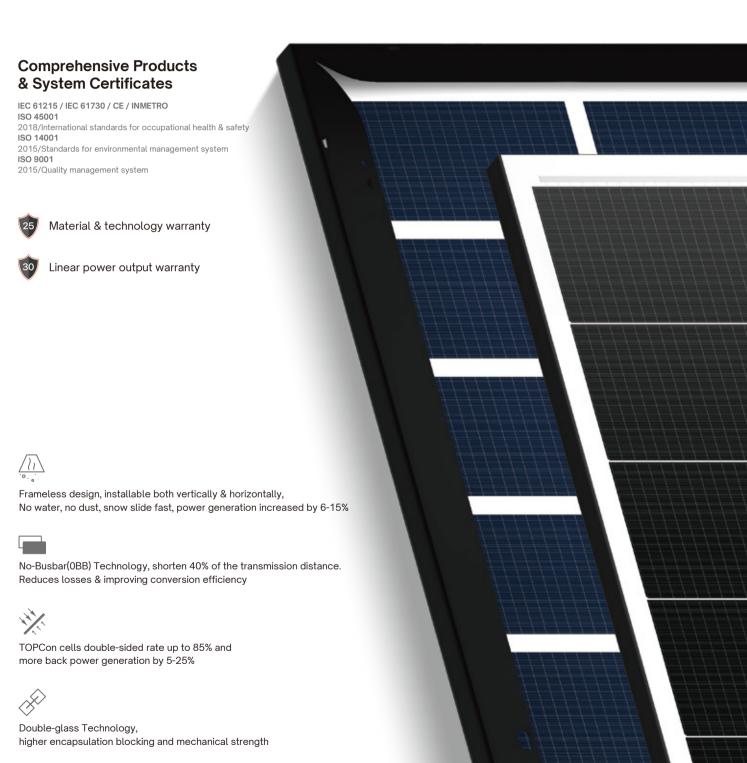






# DBB DHN-54R20/DG/FS(BW)-445W

## Full-Screen Double Glass PV Module



# DHN-54R20/DG/FS(BW)-445W

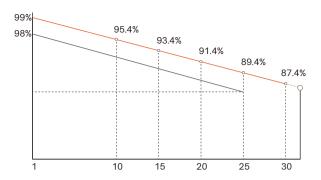
### Design

# 28 AA 28 BB

## **Mechanical Specification**

No.of Cells	108 (6×18)
Weight	24.4kg
Cells Type	N-type 182×95.8mm
Dimension (L×W×T)	1762×1134×28mm
Packing	36pcs/pallet, 864pcs/40HQ

## **30-Year Linear Power Output Warranty**



- DAH Solar linear power output guarantee
- Standard linear power output guarantee

Cable	4.0mm², 300/200mm in length,	
(Including connector)	length can be customized	
Glass	2.0mm High Transmission, Antireflection Coating	
Junction Box	IP68, 3 Bypass Diodes	
Connector	PV5e, Changshu Friends Connector Technology	
	Co.,Ltd Customized Connectors	

Electrical Characteristics	
Module Type	DHN-54R20/DG/FS(BW)-445W
Test conditions	STC NOCT
Maximum Power (Pmax/W)	445 335
Open-circuit Voltage (Voc/V)	39.2 37.2
Maximum Power Voltage (Vmp/V)	33.3 31.6
Short-circuit Current (Isc/A)	14.36 11.59
Maximum Power Current (Imp/A)	13.36 10.58
Module Efficiency (STC)	22.27%
Refer Bifacial Factor	80±5%

STC-Standard Test Environment: Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5 Tolerance: Pmax=±3%, Voc=±3%, Isc=±3% NOC-Standard Test Environment: Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

Electrical ratings at irradiance level at BNPI	
Rated Voc at STC (V) / tolerance ±3%	39.4
Rated Isc at STC (A) / tolerance ±3%	15.85
Rated Vmp at STC (V)	33.5
Rated Imp at STC (A)	14.78
Rated Pmax at STC (W) / tolerance±3%	495

Bifaciality coefficient with tolerance: φlsc= 80%±5%, φVoc= 98%±2%, φPmax= 80%±5%

## Electrical ratings at irradiance level at aBSI

Rated Isc at aBSI (A) / tolerance ±3% 17.67

**Operating Parameters** 

Maximum System Voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45°C±2°C
Application Level	Class A
Power sorting tolerance	0 ~ 5W

## **Temperature Coefficient**

Temperature Coefficient of Isc (αIsc)	0.046%/°C
Temperature Coefficient of Voc (βVoc)	-0.25%/°C
Temperature Coefficient of Pmax (γPmp)	-0.29%/°C
Fire class	CLASS A
Snow load frontside / Wind load backside	5/100Pa/2/100Pa

